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a. If letter or memo:
To: Don E Williams, Director, RD
From: John R. Horan, Director, H&S Div.
Subject: MONITORING GRID FOR System for Nuclear Auxilliary Power (SNAPTRAN) 2/10A

b. If report:
Title:

4. Document Date:	c. If publication:
Oct 12, 1964	Name: Volume: Issue:

5. Summary (2-3 lines indicating the major subject(s) of the document): Formal affirmation of conversations re environmental grid. Original criteria were to protect against 0.54 rem to child's thyroid; this has been changed by limiting experiment energy from 170 MWs to 50 MWs, and by improved calculations based on CERT data findings.

6. Name and telephone number of person completing form:	7. Organization:	8. Date:
Burton R. Baldwin (208) 525-0203	Lockheed Idaho Technologies Co.	March 28, 1995

[ ] Check here if a copy of the document is being sent to Headquarters.

HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	SYSTEM FOR NUCLEAR AUXILIARY POWER TRANSIENT (SNAPTRAN)
BOX NUMBER	INEL BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673 ACCESSION NO. 430 78 0073
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ITEMS OF INTEREST:

Don E. Williams, Director
Reactor Division

John R. Horan, Director
Health and Safety Division

OCT 12 1964

REPOSITORY INEL

COLLECTION SNAPTRAN
22305, BRC # 430 78 0073

BOX No. FILE: SNAPTRAN 1964
MONITORING GRID

FOLDER FOR SNAPTRAN 2/10A-1

MONITORING GRID FOR SNAPTRAN 2/10A-1

HSHP:RPB

This memo is intended to affirm recent discussions between members of our Divisions about the environmental monitoring grid for the SNAPTRAN 2/10A-1 destructive test. The monitoring grid layout for the SNAPTRAN destructive tests was designed to accommodate two, overlapping 60° sectors. The sector centered on a wind direction of 190° was to be used during the second and third quarters of the calendar year, that is, during the grazing season. A sector centered on 210° was an alternative sector for the first and fourth quarters. At present, the monitoring equipment is established on the second sector, centered on a wind direction of 210°. The dash one destructive test is scheduled for June so that a shift of equipment to the more northerly sector would be necessary according to the original hazard considerations.

The need for shifting the monitoring equipment from one sector to the other has been re-examined with the result that such a shift is not considered necessary. The original hazard evaluation resulted in calculated ingestion doses as great as 0.54 rem (reference my memo to you, Review of Safety Analysis Report, dated January 11, 1963) to a child's thyroid at the nearest site boundary. Since then, the maximum nuclear energy release for the destructive test has been changed from 170 Mw-sec to 50 Mw-sec with a similar reduction in iodine-131 produced. In addition, the CERT tests have provided information that permits a better ingestion dose calculation. These two changes result in calculated child thyroid doses of only 0.04 rem. Therefore, our original concern for the number of people exposed to the calculated doses is not now as great. The cost savings and the more favorable wind direction for meteorological operation with the present monitoring grid are overriding factors.

OFFICE ▶	HSHP	HSHP	HSOS	HS		
SURNAME ▶	RPBird:dc	WPGammill	RVBattle	JRHoran for	Hqs Reading File	
DATE ▶	10-7-64	10-8-64	10-12-64	10-12-64		

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